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                  Mauna Loa Solar Observatory Observer's Log
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          Wed Aug 25 16:28:59 GMT 1999
Year: 99  Doy: 237
Observer: koon
WEATHER COMMENT: Wed Aug 25 16:29:00 GMT 1999
Clear sky, wind=10 mph from the SE, temp=46 F.
Wed Aug 25 16:30:12 GMT 1999    CHIP     Startup--Initializing new tape
Wed Aug 25 16:34:09 GMT 1999    CHIP     CHIP Start Patrol
Wed Aug 25 16:34:09 GMT 1999    CHIP     CHIP Start Patrol
**MKIV PROBLEM**: Wed Aug 25 16:40:32 GMT 1999
Selecting Patrol didn't do anything, selector field went white but barrel
didn't start scanning.  Cycled main MKIV power, then barrel got stuck near
a limit, turned off spar power strip and pointed barrel to other limit
and turned power strip back on, went off to work on other problems,
came back and the barrel was stuck on the limit again.  Turned off MKIV
main power, turned off the spar power strip, repointed the barrel, turned
on power strip, turned on main power.
MKIV COMMENT: Wed Aug 25 16:50:15 GMT 1999
lost tracking a few times while working on latest MKIV problems.
**LOW-L PROBLEM**: Wed Aug 25 16:50:52 GMT 1999
L00621 was popped out of drive #1, data are going to L00622 in drive #0.
Top amber LED on drive #1 blinking at 1 HZ.  Installed L00623 in drive #1.
**MKIV PROBLEM**: Wed Aug 25 16:56:34 GMT 1999
I clicked on the Begin Day field and then the Patrol field as I usually
do, but still the scans aren't starting.  Will have to go through the
logs for the past few days and my email to see if I can find out what
changes might be causing this.
Wed Aug 25 17:01:50 GMT 1999    CHIP     Bias
Wed Aug 25 17:02:39 GMT 1999    CHIP     End Bias
Wed Aug 25 17:02:47 GMT 1999    CHIP     Water
Wed Aug 25 17:03:23 GMT 1999    CHIP     End Water
**MKIV PROBLEM**: Wed Aug 25 17:48:33 GMT 1999
David called, he changed some stack sizes back to previous values, that
may fix the current problem.  I turned off the main MKIV power and Spar
power strip, pointed the barrel to appropriate limit, then turned it
all back on.  But it looks like it is showing the same Access Fault lines
in the Akamai window:
Access Fault
Program Counter: 0xe0c02f3c
Status Register: 0x3004
Access Address : 0xe0c02f38
Special Status : 0x05e6
Task: 0x34946c ""
value = 0 = 0x0

Wed Aug 25 18:00:08 GMT 1999    PICS     Flat
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Wed Aug 25 18:00:58 GMT 1999     CHIP      Bias
Wed Aug 25 18:01:49 GMT 1999     CHIP      End Bias
Wed Aug 25 18:01:57 GMT 1999     CHIP      Water
Wed Aug 25 18:02:32 GMT 1999     CHIP      End Water
Wed Aug 25 18:02:41 GMT 1999     PICS      End Flat
Wed Aug 25 18:10:56 GMT 1999     MKIV      Start Patrol
Wed Aug 25 18:26:39 GMT 1999     MKIV      Start Cal
**MKIV PROBLEM**: Wed Aug 25 18:27:44 GMT 1999
Still can't get the desired files transferred during the calibration,
without crashing the KCC.  David changed the code back to previous code.
I am taking a calibration, then will continue with regular Patrol.
Wed Aug 25 18:50:05 GMT 1999     MKIV      Start Patrol
Wed Aug 25 19:01:01 GMT 1999     PICS      polarization_calibration
Wed Aug 25 19:02:56 GMT 1999     CHIP      Bias
Wed Aug 25 19:03:54 GMT 1999     CHIP      End Bias
Wed Aug 25 19:04:04 GMT 1999     CHIP      Water
Wed Aug 25 19:04:46 GMT 1999     CHIP      End Water
COMMENT: Wed Aug 25 19:20:28 GMT 1999
Will extend the dome slot shortly.
MKIV COMMENT: Wed Aug 25 19:21:02 GMT 1999
Stopped Patrol, will try to align the MKIV optics as requested by David.
Wed Aug 25 20:02:47 GMT 1999     CHIP      Gain
Wed Aug 25 20:07:18 GMT 1999     CHIP      End Gain
Wed Aug 25 20:07:28 GMT 1999     CHIP      Bias
Wed Aug 25 20:08:16 GMT 1999     CHIP      End Bias
Wed Aug 25 20:08:26 GMT 1999     CHIP      Water
Wed Aug 25 20:09:02 GMT 1999     CHIP      End Water
Wed Aug 25 21:00:48 GMT 1999     CHIP      Bias
Wed Aug 25 21:01:39 GMT 1999     CHIP      End Bias
Wed Aug 25 21:01:49 GMT 1999     CHIP      Water
Wed Aug 25 21:02:29 GMT 1999     CHIP      End Water
Wed Aug 25 22:02:48 GMT 1999     CHIP      Bias
Wed Aug 25 22:03:40 GMT 1999     CHIP      End Bias
Wed Aug 25 22:03:50 GMT 1999     CHIP      Water
Wed Aug 25 22:04:27 GMT 1999     CHIP      End Water
Wed Aug 25 22:26:34 GMT 1999     MKIV      Start Patrol
MKIV COMMENT: Wed Aug 25 22:28:21 GMT 1999
I tried aligning the German lens just before the camera.  There isn't a lot
of movement available due to the mounts and/or cam mechanisms reaching
their limits, and there is mechanical cross-talk between axes - especially
near the limits.  I tried taking out the setscrews in case they were limiting
needed travel, but was able to find the best signal (at limits) without
the setscrews causing those limits (I could get them back in after the
limits were reached).  So I peaked the signal while David verified
values with me via telephone and the computer network, he was able to
quantify signals by remotely using the akamai computer.  It may be
possible to increase the signal if that lens could be moved beyond the
limits or if other optical components are realigned too.
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MKIV COMMENT: Wed Aug 25 22:35:35 GMT 1999
The scans look much less noisy to me.
Wed Aug 25 22:39:06 GMT 1999     PICS      End Patrol
Wed Aug 25 22:40:21 GMT 1999     CHIP      CHIP End Patrol
Wed Aug 25 23:08:26 GMT 1999     CHIP      ending tape
COMMENT: Wed Aug 25 23:19:13 GMT 1999

TAPES:
******
MKIV: 99237
CHIP: C00905
PICS: P01529
LOWL: L00622 in drive #0

Wed Aug 25 23:20:16 GMT 1999
        MkIII

18_11.rawmk3    18_50.rawmk3    19_09.rawmk3    22_43.rawmk3    c18_26.rawmk3
18_14.rawmk3    18_53.rawmk3    22_27.rawmk3    22_46.rawmk3    c18_34.rawmk3
18_30.rawmk3    18_57.rawmk3    22_31.rawmk3    22_50.rawmk3    c18_42.rawmk3
18_38.rawmk3    19_01.rawmk3    22_35.rawmk3    22_54.rawmk3
18_46.rawmk3    19_05.rawmk3    22_39.rawmk3    c18_18.rawmk3
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